A Level Computer Science

Exam Style Questions

Unit 1.4.1

Data Types

Part 1: Primitive Data Types & Characters

Name		Date	
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Score	Percentage	Grade
/ 12		

Question 1

A simple program is shown below.

Question 2

A student writes a program to apply a symmetric encryption algorithm to work on messages of up to 25 ASCII characters.

Describe what is meant by the term 'ASCII'.

[1]

Question 3

RestaurantReview is a website that allows users to leave reviews and ratings for different restaurants. User ratings are stored in a database.

The database previously stored reviews using the ASCII character set. ASCII uses 1 byte per character. It is decided to switch to the Unicode UTF-32 character set which uses 4 bytes per character.

Give an advantage and disadvantage of changing character sets from ASCII to Unicode UTF-32.

a)	Advantage	
b)	Disadvantage	[1]
		[1]

Question 4

Variables in programs contain specific types of data.

Complete the table below to suggest a suitable data type for each piece of data.

Data	Data Type
'H'	
"Hello"	
35	
-2.625	
True	

[5]